

Claims

1. A construction toy of interconnectable building elements and comprising

- 5       - a transmitter (TX) with at least two independent channels and an operating means (FR, LR) for each channel, wherein the transmitter (TX) is configured for emitting, in response to the operating means (FR, LR), wireless remote control signals for each of the independent channels;
- 10       - a receiver configured for receiving the wireless remote control signals from the transmitter (TX);
- a control unit configured for emitting, in response to received remote-control signals, independent control signals (S<sub>LR</sub>, S<sub>FR</sub>) for each channel;
- 15       - a first and a second functionality unit (MS, M) associated to a respective one of the independent channels, wherein each functionality unit (MS, M) is configured for receiving corresponding control signals (S<sub>LR</sub>, S<sub>FR</sub>) from the control unit and performing a function corresponding to a received control signal,

20       **characterised in** that the construction toy comprises a receiver unit (RX), wherein the receiver, the control unit and the first functionality unit (MS) are integral with the receiver unit (RX); and that the second functionality unit (M) is external in relation to the receiver unit (RX) and can selectively be  
25       connected to the receiver unit (RX), such that the second functionality unit (M) is able to receive corresponding control signals from the control unit.

30       2. A construction toy according to claim 1, **characterised in** that the receiver unit (RX) and the second functionality unit (M) have coupling means by which they can selectively be interconnected and separated.

3. A construction toy according to claim 2, **characterised in** that the first functionality unit is a position servomotor (MS) with an output shaft, whose angular position is controlled in response to the corresponding operating means (LR).

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4. A construction toy according to claims 2-3, **characterised in** that the second functionality unit is a motor (M) with an output shaft, whose speed of rotation is controlled in response to the corresponding operating means (FR).

10 5. A construction toy according to claims 2-4, **characterised in** that the second functionality unit comprises two or more motors (M) with each their output shaft, the speed of rotation of which is controlled in response to corresponding operating means (FR).

15 6. A construction toy according to claims 2-5, **characterised in** comprising interconnectable building elements (BE) for the construction of a toy vehicle with controllable wheels that can be controlled by the first functionality unit (MS).

20 7. A construction toy according to claims 1-6, **characterised in** that each of the interconnectable building elements (BE) has coupling means in the form of protruding studs and corresponding cavities for receiving studs on another building element (BE).

25 8. A construction toy according to claim 7, **characterised in** that the coupling means on the interconnectable building elements (BE) have electrical contact faces with electrical connection to other parts.